

Protocol M-3

SECTION: M-3

PROTOCOL TITLE: Adult Hypotension and Shock

REVISED: April 29, 2011

GENERAL COMMENTS: *Hypotension is defined as a symptomatic blood pressure less than 90 mm/Hg. Use of good clinical judgment is essential to determine cause and how aggressively to treat the hypotension. This protocol includes shock and hypotension from a myriad of causes. Follow a more specific protocol if appropriate (i.e. Dehydration or Allergic Reaction). Fluid administration use should be used with caution in CHF patents.*

BLS SPECIFIC CARE: *See adult General Medical Care Protocol M-1*

- Administer high flow oxygen.
- Place patient in Trendelenburg position if tolerated.
- Maintain body temperature.

ILS SPECIFIC CARE: *See adult General Medical Care Protocol M-1*

ALS SPECIFIC CARE: *See adult General Medical Care Protocol M-1*

- Assess and treat underlying cause of shock, if known.

Vasopressors

- Dopamine infusion IV/IO: ***
 - IV: 2-20 mcg/kg/min.
 - See, "Adult Epinephrine/Dopamine Infusion Chart." See C-7
 - To maintain systolic BP of > 90 mmHg
- **Epinephrine infusion IV/IO:** ***
 - IV: 2-10 mcg/min
 - First line agent for treatment of anaphylactic shock.
 - See, "Adult Epinephrine Infusion Chart." See C-7
 - 2-10 mcg/min
 - Titrated to adequate heart rate and/or blood pressure response.
 - Second line agent if patient unresponsive to dopamine.

ADULT HYPOTENSION/SHOCK

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PHYSICIAN PEARLS:

Dopamine Infusion Matrix

Recommended Infusion Rates for Dopamine Mix 400 mg / 250 cc for a 1600mcg/1 cc concentration.														
Dose	Patient Weight													
	40	50	60	70	80	90	100	110	120	130	140	150	160	170
5	8	9	11	13	15	17	19	21	23	24	26	28	30	32
7	11	13	16	18	21	24	26	29	32	34	37	39	42	45
10	15	19	23	26	30	34	38	41	45	49	53	56	60	64
15	23	28	34	39	45	51	56	62	68	73	79	84	90	96
20	30	38	45	53	60	68	75	83	90	98	105	113	120	128

Epinephrine Infusion Matrix

Recommended Infusion Rate for Epinephrine		
DOSE Mcg/min	1 mg/250 cc with microdrip 4 mcg/ml concentration	1 mg/100 cc buritrol 10 mcg/ml concentration
2	15 gtt/min (ml/hr)	12 gtt/min (ml/hr)
3	30 gtt/min (ml/hr)	18 gtt/min (ml/hr)
4	45 gtt/min (ml/hr)	24 gtt/min (ml/hr)
5	60 gtt/min (ml/hr)	30 gtt/min (ml/hr)
6	75 gtt/min (ml/hr)	36 gtt/min (ml/hr)
7	90 gtt/min (ml/hr)	42 gtt/min (ml/hr)
8	105 gtt/min (ml/hr)	48 gtt/min (ml/hr)
9	120 gtt/min (ml/hr)	54 gtt/min (ml/hr)
10	135 gtt/min (ml/hr)	60 gtt/min (ml/hr)